## **AutoTools**

## Plan

The scope of this work is split into two overall parts:

- · Autoconf m4 configuration checks
- · All other distribution and maintenance files

There is still lots of cleanup to be done but no show-stoppers.

## **Configuration Checks**

Porting the configuration checks into Autoconf macros comprise the bulk of the work. The work required for the macros can be organized as follows:

```
1.1. Standard C Language
1.1.1. Preprocessing Symbols (e.g. func)
1.1.2. Intrinsic Types (e.g. long long)
1.2. Standard C Library
1.2.1. Header Files (e.g. <wchar.h>)
1.2.1.1. Constants (e.g. WEOF)
1.2.1.2. Type Definitions (e.g. wint_t)
1.2.1.3. Functions (e.g. fwprintf)
1.3. Non-Standard Features
2. C++
2.1. Standard C++ Language
2.2. Standard C++ Library
2.3. Non-Standard Features
3. Environment
3.1. Computer Architecture (e.g. atomic operations)
3.2. Operating System (e.g. version info, POSIX conformance, multithreading)
3.3. External Software (e.g. optional libraries, diagnostic tools)
```

The current plan is to tackle everything in Section 2.1 before moving on to the rest.

Most of the proof-of-concept work for the remaining stages has also been prototyped. Its just a matter of cleaning up the prototypes and integrating the new infrastructure into the baseline, more or less.

## Prototype

- Subversion branch
- Sample output from make distcheck target
- Sample distributions